

# METHOD OF REDUCING A FRINGE FIELD EFFECT IN AN LCD AND RELATED STRUCTURE

## Abstract

A method of reducing a fringe field effect in an LCD and related structure. The LCD includes a plurality of pixels thereon. The method includes forming a bump on at least a side of each pixel for controlling inclined directions of liquid crystal molecules in a liquid crystal cell, and forming a concave in each pixel for fixing a position of a reverse domain due to different inclined directions. The method and related structure is able to reduce the fringe field effect in a VAN LCOS display or a high resolution LCD. Consequently, the brightness uniformity and contrast ratio are improved while areas with poor display effect are reduced.